J. Garner

JA TEXAS INSTRUMENTS

1 Mask HD Cap Proposal



Materials:

Cross Section:

Dielectric

Basic process flow:

Sic or Sin

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ZaZ

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1. 401

|Ta205

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Main Processing Issues: HD Cap stack etch

Edge leakage Al Cap coverage

Stack step height

Metal CMP TaN deposition

Ta deposition

O₂ anneal TaN dep

HDCap pattern Stack etch

SiN deposition PO etch stop dep PO etch Al cap dep Al cap pattern Al cap etch

Rost C021

TI Proprietary Information - Internal Data











